DENTAL POSTGRADUATE SECTION

IN-PRACTICE TRAINING

Cardiopulmonary Resuscitation
Automated External Defibrillation and the
recognition and management of common medical
emergencies

SUPPORTING INFORMATION
FOR PRACTICAL SESSION
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**MEDICAL EMERGENCY FLOWCHARTS**
- SEE SEPARATE DOCUMENT
## CONTACT DETAILS

| **Dental Postgraduate Section,**
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AIMS AND OUTCOMES

Aim

➢ To provide training in adult and paediatric basic life support, for the whole dental team, as specified by the most recent Resuscitation Council (UK) Standards.

Learning Outcomes

By the end of the training session the participants should be able to:

♦ Demonstrate the primary survey of a collapsed patient using the DRABCDE approach, while ensuring safety of staff and patients
♦ Demonstrate effective Cardio-Pulmonary Resuscitation and safe use of an Automated External Defibrillator
♦ Explain the use of basic airway adjuncts, supplemental oxygen
♦ Be aware of the use of pocket mask and self-inflating mask
♦ Be aware of the management of anaphylaxis

Verifiable CPD & Development Outcome

This activity has been quality assured and meets the GDC’s educational criteria for 1 hours of verifiable CPD

This activity maps to GDC Development outcome A and C
IN PRACTICE TRAINING PROGRAMME – CONTENT

The GDC recommends that you do at least 2 hours of this training every year and 10 hours in your 5 year CPD cycle

• Adult Basic Life Support including Paediatric modifications
  Current Adult Resuscitation Council Standards
  Considerations when undertaking resuscitation in a dental chair
  Recovery position
  Use of bag valve mask (two person) – optional
  Oxygen therapy
  Use of suction, including portable suction
  Use of oro-pharyngeal airways
  Use of pocket masks (with 02 therapy)
  Use of Automated External Defibrillator
  Practice skills on manikin
  Team scenario practice
  Awareness of:
    -the drugs used in emergencies
    -the recognition and treatment of Anaphylaxis
    -cardiac arrest in pregnancy
    -use of a Pulse Oximeter

• Review of Adult and Paediatric Basic Life Support
  Review of previous sessions
  Changes in guidelines since last session
  Practice Skills on manikin
  Team scenario practice in various areas of the dental practice

• ** Management of common Medical Emergencies**
  Signs and symptoms
  Scenarios
  Drugs – selection and administration

** Please note this will be discussed briefly – a more detailed training session is available in Postgraduate Centres around Wales entitled ‘The clinical management of medical emergencies including the administration of medication’ **
DRUGS

TO BE HELD AT DENTAL PRACTICES FOR MEDICAL EMERGENCIES

DRUGS

- Adrenaline, 1-ml ampoules or prefilled syringes for intramuscular (i.m.) injection*
- Aspirin, 300 mg dispersible tablets
- Glucagon, for i.m. injection of 1 mg
- Glyceryl trinitrate (GTN) spray, 400 micrograms per metered dose
- Midazolam oromucosal solution, 10 mg/ml, for topical buccal administration~
- Oral glucose (there are several alternative forms, including non-diet fizzy drinks, glucose gel, powdered glucose, glucose tablets)
- Oxygen cylinder, two size D or two size CD
- Salbutamol inhaler, 100 micrograms per actuation

* ADRENALINE Note that pre-filled syringes are convenient in an emergency situation due to their ease of use but auto-injectors provided for patient use (e.g. EpiPen® etc.) may contain less adrenaline than recommended for the management of medical emergencies and for some patients the needle may be too short for i.m. administration. Practices are advised that the decision to hold Adrenaline in ampoules and / or auto-injectors is one that they must make on a professional basis however they should ensure there is sufficient dosage available.
Further guidance on the use of adrenaline is available here: https://www.resus.org.uk/anaphylaxis/emergency-treatment-of-anaphylactic-reactions/

~ Midazolam oromucosal solution is available as pre-filled oral syringes; several sizes are available to allow for exact dosing for different age groups. Midazolam oromucosal solution is not licensed for use in children <3 months or in adults >18 years.

This list is recommended by the Scottish Dental Clinical Effectiveness Programme guidance document ‘Drug Prescribing for Dentistry’

Additional drugs may be held at the Dental Practice if suitably trained staff are available to use them.

BNF Guidance on emergency drugs in dental practice
EQUIPMENT

**Regularly check items are within expiry date and packaging intact**

- Oxygen Supply with a flow rate of 10-15 litres/min
- (CD-size Oxygen Cylinder – x 2 for rural areas; urban areas should consider having a spare cylinder)
- Adult and Paediatric non re-breathing oxygen masks with reservoir
- Single Patient use self inflating bag-valve mask, adult size 3, 4, 5; child size 1, 2
- Oropharyngeal airways sizes 0, 1, 2, 3 and 4
- Portable Suction
- Pocket mask with one way valve and O2 inlet
- Volumatic Spacer device for inhalers
- AED and required consumables (i.e. pads, scissors, razors x2, dry cloth)
- 1ml syringe and appropriate needle for administration of emergency drugs
- Pulse Oximeter (optional)